NITFS Technical Board (NTB)

02 May 2008

Self-register for the NTB email reflector list
http://gwg.nga.mil/ntb/

NITFS Technical Board

- The technical focal point for still imagery, and imagery-related standardization activities within the GEOINT community.
  - Initially established in the early 1990's by the Imagery Standards Management Committee (ISMC).
  - Now serving as a technical board within the GWG's Focus Group construct.

NTB Description

- The mission of the NTB is to facilitate th
  - Development,
  - Selection,
  - Adoption,
  - Profiling,
  - Application,
  - Implementation, and
  - Testing

  of standards essential to establishing interoperability and quality for still imagery, associated metadata, and othe related aspects within the NSG

Standardization Topics

- Still imagery and gridded data
- Imagery and gridded data formats
- Imagery and gridded data compression
- Graphical, textual, and other means to annotate imagery and imagery products
- Imagery-related support data and metadata
- Imagery-derived data and metadata, to include foundation data
- Image Quality
- Other topics as designated by the GWG

Examples of Standards

- Mil-Std-2500C NITF Version 2.1
- Mil-Std-2301A Computer Graphics Metafile
- Mil-Std-188-198A JPEG Image Compression
- Mil-Std-188-199 Vector Quantization Decompression
- STDI-0001 National Support Data Extensions (SDEs)
- STDI-0002 Compendium of TREs
- STDI-0004 FDDRD
- STDI-0005 Implementation Practices of the NITFS (IPON)
- STDI-0006 NITF 2.1 Commercial Dataset Requirements Document (NCDRD)
- N0105/98 NITFS Test Program Plan
- N0106/98 BWC Standards & Guidelines
- NSG-STD-001-05 NGA NITF 2.0 Dataset Definition Document (NNDDD)
- NSG-STD-002-05 NGA Commercial Data Definition Document (NCDDD)

Examples of Standards (cont.)

• STANAG 4545	NATO Secondary Imagery Format (NSIF)
• STANAG 4559	NATO Secondary Imagery Library Interface (NSILI)
• STANAG 4607	Ground Moving Target Interface (GMTI)
• STANAG 7023	Primary Image Format
• STANAG 7194	Image Quality Rating Scale
• STANAG 7074	Digital Geographic Information Exchange Standard (DIGEST)
• ISO/IEC 12087-5	Basic Image Interchange Format (BIIF)
• ISO/IEC 10918-1	JPEG (DCT lossy & DPCM lossless)
• ISO/IEC 15444-1	JPEG 2000 Part 1
• NSIF01.00	NSIF Profile of BIIF
• BPJ2K01.00	BIIF Profile for JPEG 2000
• BPCGM01.00	BIIF Profile for CGM

Program of Work

- **Format Working Group (FWG)**
  - Replacement Sensor Model (RSM)
  - Community Phase History Data Activities
  - NITF Extensions
  - Naming conventions
  - Beyond NITF – What Next?
- **Bandwidth Compression WG (BWCWG)**
  - JPEG 2000
  - Interactive navigation of imagery & metadata over networks
- **Metadata Profile WG (MPWG)**
  - Metadata for common products

NTB Contact Information

- NTB Chairman: ntbchair@nga.org
- Self-register for the NTB email reflector list. Instructions at NTB Web site: http://gwg.nga.mil/ntb/